Title V Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Stanley Furniture Company
Facility Name:	Stanley Furniture Company – Stanleytown Plant
Facility Location:	1401 Fairystone Park Highway Stanleytown, Virginia
Registration Number:	30320
Permit Number:	WCRO-30320
County-Plant Identification Number:	51-089-0037

July 2, 2008
Renewal Effective Date

July 1, 2013
Expiration Date

_____

Steven A. Dietrich, P.E. Signature Date
Regional Director

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I. Facility Information

Permittee
Stanley Furniture Company
P.O. Box 30
Stanleytown, VA 24168

Responsible Official
Jeffrey R. Scheffer, Chairman, President and Chief Executive Officer

Facility
Stanley Furniture Company – Stanleytown Plant
1401 Fairystone Park Highway
Stanleytown, VA

Contact Person
David P. Maddox, Director of Engineering
276-627-2260

County-Plant Identification Number: 51-089-0037

Facility Description: NAICS code 337122 – This plant manufactures a wide variety of conventional wood household furniture. It is located at 1401 Fairystone Park Highway in Stanleytown in Henry County. The plant receives and dries rough sawn lumber, mostly hardwoods, performs various woodworking and furniture assembly operations and finishes the assembled furniture primarily with stains and lacquer. Finishes applied are primarily MACT compliant VOC-based wood furniture coatings. Spraying is the primary application method.

All wood dust emission sources are controlled by either fabric filters or closed loop cyclones without emission points.

Process and space heat for the facility are provided by three (3) facility boilers. FB1 is a 37.0 million Btu/hr rated input capacity Erie City boiler burning wood as the primary fuel with distillate (No. 2) fuel oil backup fuel. FB2 is a 110.0 million Btu/hr rated input capacity Union Iron Works boiler burning wood as the primary fuel with coal as the backup fuel. FB3 is a small 8.46 million Btu/hr rated input capacity Hurst package boiler burning only distillate (No. 2) fuel oil. Most of the plant's heat is supplied by burning dry hogged and finer wood fuel from the facility's wood furniture processes. This fuel is fed pneumatically from the enclosed wood fuel storage silo. Excess summer wood fuel is saved for use in the winter by storage in semi-enclosed building.

The facility is a Title V major source of Volatile Organic Compounds and Hazardous Air Pollutants**.** This source is located in an attainment area for all pollutants, and is a PSD major

source; the source has actual emission of VOCs over 250 tpy and potential emissions of PM_{10}, NO_x, SO_2 and CO of over 250 tpy.

The facility is currently permitted under three Minor NSR Permits (September 21, 1993; January 14, 2000 amended on June 8, 2001; and January 14, 2000 amended December 12, 2007) and one PSD permit (May 19, 1999 amended July 29, 2002).

The finishing operations are subject to MACT JJ and the following equipment is subject to MACT DDDD: Lumber kilns, Pre-dryer kiln, Dimension Mill - Plant 06 (Fingerjoint Machine, Rosenquist HF Gluer, L & L Clam Shell Gluer and Taylor Glue Reels), Panel Plant - Plant 05 (Wemhoner Hot Press, Buerkle Hot Press, Newman Cold Presses, Fletcher Combo Machine, Fletcher Edge Banders, Holzma Dbl Sided Bander and Rosenquist HF Gluer) and Shoda Building - Plant 07 (Rosenquist Clam Shell).

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment						
EU-FB (Fuel Boilers – FB1, FB2 & FB3)	FB1	FB1, pre-1967 Erie City type 4C-28 boiler. Wood fuel, distillate fuel oil (No. 2) backup. No NSPS Dc – constructed prior to 1989.	37.0 million Btu/hr input rated capacity (2.5 tph wood fuel @ 7,500 Btu/lb, or 270 gal/hr No. 2 fuel oil)	NA	NA	NA
	FB2	FB2, 1967 Union Iron Works type VO boiler. Wood fuel, coal backup. Not NSPS Db – constructed prior to 1984.	110.0 million Btu/hr input rating capacity (7.3 ton/hr wood fuel at 7,500 Btu/lb, 4.2 tons/hr coal at 13,000 Btu/lb)	NA	NA	NA
	FB3	FB3, 1990 Hurst boiler. No. 2 fuel oil is the only fuel. Not NSPS Dc – smaller than 10 million Btu/hr rated capacity.	8.46 million Btu/hr input rated capacity (62 gal/hr).	NA	NA	NA

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	Pollutant Controlled	Applicable Permit Date
Woodworking Equipment						
EU-WW		Woodworking: all woodworking equipment, including hogging and material transfers and all woodworking dust collection systems. Includes (a) 22 main fabric filters on existing wood dust air handling systems, and (b) 4 main fabric filters BF1-3, BF5-2, BF5-3 and BF5-4 on NSR permitted wood dust air handling systems.	NA	Closed loop cyclones without emissions, 26 main fabric filters vented to atmosphere including all woodworking equipment all woodworking dust collection systems.	PM & PM_{10}	September 21, 1993 (BF1-3) December 12, 2007 (BF5-2 & BF5-4) June 8, 2001 (BF5-3)
Furniture Finishing Equipment						
EU-F	F1	All Finishing operations other than F2 (Plant 2) finishing operations. Includes 37 finishing spray booths and related facilities, including various ovens and 6 washoff tanks. MACT JJ (40 CFR Subpart JJ) applies to this emission unit.	NA	Spray booth water curtains, dry filters or DEQ approved equivalent.	PM & PM_{10}	NA
	F2	All F2 (Plant 2) Finishing operations. Includes 11 finishing spray booths and one (1) community oven. Includes a community oven. MACT JJ (40 CFR 63 Subpart JJ) applies.	NA	Spray booth water curtains, dry filters or DEQ approved equivalent.	PM & PM_{10}	May 19, 1999 PSD permit amended July 29, 2002

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	Pollutant Controlled	Applicable Permit Date
Contact Adhesive Operation						
Con-Adh	Con-Adh	One (1) adhesive spray booth. MACT JJ (40 CFR 63 Subpart JJ) applies. MACT DDDD (40 CFR 63 Subpart DDDD) applies to the Dimension Mill - Plant 06 (Fingerjoint Machine, Rosenquist HF Gluer, L & L Clam Shell Gluer and Taylor Glue Reels), Panel Plant - Plant 05 (Wemhoner Hot Press, Buerkle Hot Press, Newman Cold Presses, Fletcher Combo Machine, Fletcher Edge Banders, Holzma Dbl Sided Bander and Rosenquist HF Gluer) and Shoda Building - Plant 07 (Rosenquist Clam Shell)	NA	Spray booth water curtains, dry filters or DEQ approved equivalent.	PM & PM_{10}	NA
Lumber Drying Kilns						
EU-DK	NA	Lumber Drying Kilns – 12 Package kilns and one (1) Pre-Drying kiln, combined.	1,905,000 Brd ft capacity. Approximately 35,000,000 Brd ft/yr throughput.	NA	NA	NA

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment Requirements –Boilers (EU-FB) FB1, FB2 & FB3

A. Limitations

1. Particulate emissions from the Erie City boiler (FB1) shall be controlled by a multicyclone flyash collector without flyash reinjection (reinjection is acceptable from boiler drums and boiler ash hoppers and is acceptable from any fallout/settling chamber or cyclone precleaner or equivalent before a multicyclone flyash collector.).
(9 VAC 5-20-160, 9 VAC 5-40-20 and 9 VAC 5-80-110)

2. Particulate emissions from the Union Iron Works boiler (FB2) shall be controlled by a multicyclone flyash collector without flyash reinjection (reinjection is acceptable from boiler drums and boiler ash hoppers and is acceptable from any fallout/settling chamber or cyclone precleaner or equivalent before a multicyclone flyash collector.).
(9 VAC 5-20-160, 9 VAC 5-40-20 and 9 VAC 5-80-110)

3. The approved fuels for the Erie City boiler (FB1) are wood fuel and distillate (No. 2) fuel oil. The wood fuel shall be dry and hogged or smaller as fed to the boiler. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396-78 "Standard Specification for Fuel Oils." or a DEQ approved equivalent method. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-20-160, 9 VAC 5-80-110 and 9 VAC 5-170-160)

4. The approved fuels for boiler FB2 are wood fuel and coal. The wood fuel shall be dry and hogged or smaller as fed to the boiler. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-20-160, 9 VAC 5-80-110 and 9 VAC 5-170-160)

5. The approved fuel for the Hurst boiler (FB3) is distillate (No. 2) fuel oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396-78 "Standard Specification for Fuel Oils." or a DEQ approved equivalent method. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-20-160, 9 VAC 5-80-110 and 9 VAC 5-170-160)

6. Emissions from the operation of boiler FB1 shall not exceed the limits specified below:

Particulate Matter	0.30 lbs/million Btu input
PM_{10}	0.30 lbs/million Btu input
Sulfur Dioxide	0.51 lbs/million Btu input

(9 VAC 5-40-900A1, 9 VAC 5-40-930A1, 9 VAC 5-80-110 and 9 VAC 5-170-160)

7. Emissions from the operation of boiler FB2 shall not exceed the limits specified below:

Particulate Matter	0.30 lbs/million Btu input
PM_{10}	0.30 lbs/million Btu input
Sulfur Dioxide	2.64 lbs/million Btu input

   (9 VAC 5-40-900A1, 9 VAC 5-40-930A1, 9 VAC 5-80-110 and 9 VAC 5-170-160)

8. Emissions from the operation of boiler FB3 shall not exceed the limits specified below:

Particulate Matter	0.014 lbs/million Btu input
PM_{10}	0.014 lbs/million Btu input
Sulfur Dioxide	0.51 lbs/million Btu input

   (9 VAC 5-40-900A1, 9 VAC 5-40-930A1, 9 VAC 5-80-110 and 9 VAC 5-170-160)

9. Visible Emissions from each of the boilers FB1 and FB2 stacks shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity.
   (9 VAC 5-40-940 and 9 VAC 5-80-110)

10. Visible Emissions from the boilers FB3 stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity. This operational limit shall apply to this 1990 boiler at all times except during periods of startup, shutdown and malfunction.
    (9 VAC 5-50-20 A.3, 9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Monitoring

1. Multicyclones - An annual internal inspection shall be conducted on each multicyclone by the permittee to insure structural integrity.
   (9 VAC 5-80-110)

2. Visible Emissions Monitoring – At least once per week an observation for the presence of visible emissions from each operating boiler shall be made. If visible emissions are observed, the permittee shall:

   a. take timely corrective action such that the boiler resumes operation with no visible emissions, or,

   b. perform a visible emissions evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the boiler stack does not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six (6) minutes. If any

of the observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 20 percent or less.

The permittee shall maintain a boiler observation log to demonstrate compliance. The log shall identify the emissions point and include the date and time of the observations, whether or not there were visible emissions, any VEE recordings and any necessary corrective action.
(9 VAC 5-80-110E)

3. Operation & Maintenance Procedures - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the boilers and related air pollution control equipment which affect such emissions:

   a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance for the boilers and multicyclones.

   b. Develop an inspection schedule, monthly at a minimum, to insure operational integrity of the boilers and multicyclones, and maintain records of inspection results.

   c. Have available written operating procedures for the boilers and multicyclones. These procedures shall be based on the manufacturer's recommendations, at a minimum, if such recommendations exist.

   d. Train operators in the proper operation of the boilers and multicyclones and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

   e. Maintain an inventory of spare parts that are needed to minimize the duration of air pollution control equipment breakdowns.

   Records of maintenance, inspections and training shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
   (9 VAC 5-40-20 E, 9 VAC 5-80-110 and 9 VAC 5-80-110 F & K)

C. Recordkeeping

1. Distillate Oil: The permittee shall obtain and maintain records of a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

   a. The name of the fuel supplier,

   b. The date on which the oil was received,

c. The volume of distillate oil delivered in the shipment,

d. A statement that the oil complies with the American Society for Testing and Materials specifications for fuel oil numbers 1 and 2, and

e. The sulfur content of the oil.

(9 VAC 5-80-110 and 9 VAC 5-80-110 E, F and K)

2. Coal: The permittee shall maintain records of certifications or alternative statement, from the fuel supplier covering each shipment of coal. Each coal supplier certification or alternative statement shall include the following: the name of the supplier, date and tons of shipment, the sulfur content and the ash content of the coal.
(9 VAC 5-80-110 and 9 VAC 5-80-110 E, F and K)

3. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:

a. The calendar year annual throughput of wood fuel and distillate fuel oil in boiler FB1, for calculating calendar year emissions and fees.

b. The annual throughput of wood fuel and coal for boiler FB2, calculated as the sum of each consecutive twelve (12) month period.

c. The calendar year annual throughput of distillate fuel oil in boiler FB3, for calculating calendar year emissions and fees.

d. The annual emissions of Particulate Matter, PM_{10}, SO_2 and NO_x in tons from the boiler FB2, calculated as the sum of each consecutive twelve (12) month period. The emission factors, control efficiencies and emission calculation equations used in these emission calculations shall be identified and readily available.

e. The calendar year annual emissions of Particulate Matter, PM_{10}, SO_2 and NO_x in tons from boiler FB1 and FB3 for calculating calendar year emissions and fees. The emission factors, control efficiencies and emission calculation equations used in these emission calculations shall be identified and readily available.

f. The annual throughput in Btus for boiler FB2, calculated according to Condition III.D.4, calculated monthly as the sum of each consecutive twelve (12) month period.

g. All fuel supplier certifications.

h. Results of all stack tests, visible emission evaluations and performance evaluations.

i. Operation and Maintenance records as required by Condition III.B.3.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-40-20E and 9 VAC 5-80-1100)

D. Testing

1. Emissions Testing - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9 VAC 5-40-30 F and 9 VAC 5-80-110)

2. Stack Tests - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G and 9 VAC 5-80-110)

3. Visible Emissions Evaluations - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G and 9 VAC 5-80-110)

4. Stack testing boiler FB2 for particulate emissions: Once per permit term performance tests (stack tests) shall be conducted for particulate emissions from boiler FB2, to determine compliance with the particulate emission limits in this permit (a) when burning wood fuel and (b) when burning coal. This testing shall be performed within three (3) years after the beginning of each 5 year term of this permit. The tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-40-30. The details of the tests are to be arranged with the Air Compliance Manager, West Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to the West Central Regional Office within 45 days after test completion and shall conform to the DEQ test report format.

   At the option of the permittee, this stack test may be delayed, even indefinitely, with notification to DEQ and adequate recordkeeping, until the combined wood fuel plus coal throughput in Btus for this boiler exceeds 50% of its annual capacity factor, calculated monthly as the sum of each consecutive twelve (12) month period (boiler FB2 optional stack testing trigger = 50% x 110 million Btu/hr capacity x 8,760 hrs/yr = 481,800 million Btu/yr fuel throughput). Delayed testing shall be performed no later than 180 days after exceeding the 50% annual throughput amount.
   (9 VAC 5-80-110)

E. Reporting

1. See General Conditions, Section XII. C, D, E and F for all reporting requirements.

IV. Process Equipment Requirements – (EU-WW) Wood Working

A. Limitations

1. All wood dust emission sources and wood dust air handling systems shall be controlled by baghouses (fabric filters), closed loop cyclones or DEQ approved equivalent. These include wood working equipment, hogging, material transfers and storage bins, and wood dust air handling systems. The fabric filters shall be provided with adequate access for inspection, maintained by the permittee such that they are in proper working order and be operating when all wood dust emission sources and wood dust air handling systems are operating.
   (9 VAC 5-80-110, 9 VAC 5-50-260, 9 VAC 5-170-160 and Conditions 3 & 4 of 9/21/1993 NSR Permit, Conditions 2 & 3 of 12/12/2007 NSR Permit and Conditions 3 & 4 of 6/8/2001 NSR Permit)

2. The BF1-3 wood working air handling system shall not operate more than 4,800 hours per year, calculated as the sum of each consecutive twelve (12) month period.
   (9 VAC 5-80-110, 9 VAC 5-170-160, 9 VAC 5-80-1100 and Condition 7 of 9/21/1993 NSR Permit)

3. The BF5-2 and BF5-4 wood working air handling systems shall not operate more than 5,100 hours per year, calculated as the sum of each consecutive twelve (12) month period.
   (9 VAC 5-80-110, 9 VAC 5-170-160, 9 VAC 5-80-1100 and Conditions 7 & 8 of 12/12/2007 NSR Permit)

4. The BF5-3 wood working air handling system shall not operate more than 5,400 hours per year, calculated as the sum of each consecutive twelve (12) month period.
   (9 VAC 5-80-110, 9 VAC 5-170-160, and Condition 6 of 6/8/2001 NSR Permit)

5. Particulate emissions from each wood working air handling system baghouse for this equipment group (except BF1-3, BF5-2, BF5-3 and BF5-4) shall not exceed 0.05 grains per standard cubic feet of exhaust gas.
   (9 VAC 5-40-2270 and 9 VAC 5-80-110)

6. Emissions from the operation of wood working air handling system BF1-3 shall not exceed the limits specified below:

PM	0.01 grain/dscf	4.63 lbs/hr	11.1 tons/yr
PM_{10}	0.01 grain/dscf	4.63 lbs/hr	11.1 tons/yr

   The annual amount shall be calculated as the sum of each consecutive twelve (12) month period.
   (9 VAC 5-40-2270, 9 VAC 5-50-10D, 9 VAC 5-50-260, 9 VAC 5-80-110, 9 VAC 5-80-1100 and Condition 8 of 9/21/1993 NSR Permit)

7. Emissions from the operation of wood working air handling system BF5-2 shall not exceed the limits specified below:

PM	0.01 grain/dscf	13.8 tons/yr
PM_{10}	0.01 grain/dscf	13.8 tons/yr

The annual amount shall be calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-40-2270, 9 VAC 5-50-10D, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 9 of 12/12/2007 NSR Permit)

8. Emissions from the operation of wood working air handling system BF5-3 shall not exceed the limits specified below:

PM	0.01 grain/dscf	14.0 tons/yr
PM_{10}	0.01 grain/dscf	14.0 tons/yr

The annual amount shall be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-40-2270, 9 VAC 5-50-10D, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 7 of 6/8/2001 NSR Permit)

9. Emissions from the operation of wood working air handling system BF5-4 shall not exceed the limits specified below:

PM	0.01 grain/dscf	15.3 tons/yr
PM_{10}	0.01 grain/dscf	15.3 tons/yr

The annual amount shall be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-80-110, 9 VAC 5-50-10D, 9 VAC 5-50-260, 9 VAC 5-40-2270 and Condition 10 of 12/12/2007 NSR Permit)

10. Visible emissions from each of the BF1-3, BF5-2, BF5-3 and BF5-4 wood working air handling systems/baghouses shall not exceed five (5) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.

Visible emissions from each of the wood working air handling systems/baghouses other than BF1-3, BF5-2, BF5-3 and BF5-4 shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.

(9 VAC 5-40-80, 9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-80-110, 9 VAC 5-80-1100, Condition 9 in 9/21/1993 NSR Permit, Conditions 11 & 12 of 12/12/2007 NSR Permit and Condition 8 of 6/8/2001 NSR Permit)

11. Visible fugitive emissions resulting from the collection, transfer or handling of wood fuel related to BF1-3, BF5-2, BF5-3 and BF5-4 wood working air handling systems/baghouses shall not exceed ten percent opacity as determined by 40 CFR 60, Appendix A, Method 9 (EPA Method 9).

    Visible fugitive emissions resulting from the collection, transfer or handling of wood fuel related to wood working air handling systems/baghouses other than BF1-3, BF5-2, BF5-3 and BF5-4 shall not exceed 20 percent opacity as determined by 40 CFR 60, Appendix A, Method 9 (EPA Method 9).

    (9 VAC 5-40-80, 9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-80-110, 9 VAC 5-80-1100 Condition 10 in 9/21/1993 NSR Permit, Condition 13 of 12/12/2007 NSR Permit and Condition 9 of 6/8/2001 NSR Permit)

B. Monitoring

1. At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

    a. At least once per week an observation for the presence of visible emissions from each wood working equipment/wood working air handling system fabric filter (EU-WDS) shall be made. If visible emissions are observed, the permittee shall:

        (i) take timely corrective action such that the fabric filter resumes operation with no visible emissions, or

        (ii) perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the fabric filter does not exceed the applicable five (5) or 20 percent opacity limitation in this section. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed the applicable five (5) or 20 percent opacity limitation, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the

fabric filter resumes operation with visible emissions of the applicable five (5) or 20 percent opacity limitation or less.

The permittee shall maintain a fabric filter observation log to demonstrate compliance. The log shall identify the emissions point and include the date and time of the observations, whether or not there were visible emission, any VEE recordings, and any necessary corrective action.
(9 VAC 5-80-110E)

b. Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The pressure drop across each fabric filter shall be recorded weekly. The permittee shall maintain a fabric filter observation log to demonstrate compliance; the log shall identify the fabric filter and include the date and time of the observations, the pressure drop reading and any necessary corrective action. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.

Records of observations and inspections shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
(9 VAC 5-80-110, 9 VAC 5-40-20 E, 9 VAC 5-50-20E, Condition 3 of 9/21/1993 NSR Permit, Condition 5 of 6/8/2001 NSR Permit and Conditions 4 & 5 of 12/12/2007 NSR Permit)

2. Operation & Maintenance Procedures - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the woodworking and related air pollution control equipment which affect such emissions:

a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

b. Develop an inspection schedule, monthly at a minimum, to insure operational integrity of the fabric filters and maintain records of inspection results.

c. Have available written operating procedures for the fabric filters. These procedures shall be based on the manufacturer's recommendations, at a minimum.

d. Train operators in the proper operation of the fabric filters and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

e. Maintain an inventory of spare parts that are needed to minimize the duration of air pollution control equipment breakdowns.

Records of maintenance, inspections and training shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
(9 VAC 5-40-20 E, 9 VAC 5-50-20 E, 9 VAC 5-80-110 and 9 VAC 5-80-110 F & K)

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:

1. The calendar year annual throughput of wood, for calculating calendar year emissions and fees.

2. Maintain records of the annual hours of operation of each fabric filter (BF1-3, BF5-2, BF5-3 and BF5-4), calculated monthly as the sum of the previous twelve (12) months.

3. Records as required by Condition IV.B.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-40-50, 9 VAC 5-50-50, 9 VAC 5-80-110, 9 VAC 5-80-1100, Condition 12 of 9/21/1993 NSR Permit, Condition 10 of 6/8/2001 NSR Permit and Condition 14 of 12/12/2007 NSR Permit)

D. Testing

1. Emissions Testing - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9 VAC 5-40-30 F, 9 VAC 5-50-30 F and 9 VAC 5-80-110)

2. Stack Tests - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G, 9 VAC 5-50-30 G and 9 VAC 5-80-110)

3. Visible Emissions Evaluations - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G, 9 VAC 5-50-30 G and 9 VAC 5-80-110)

E. Reporting

See General Conditions, Section XII C., D., E. and F. for all reporting requirements.

V. Process Equipment Requirements – (EU-F) Finishing

A. Limitations

1. Particulate emissions from each finishing spray booth, when its spraying equipment is operating, shall be controlled by dry filters or water curtain spray booths or equivalent at a minimum. The overspray particulate controls shall be provided with adequate access for inspection and maintained by the permittee such that they are in proper working order. (9 VAC 5-40-20, 9 VAC 5-50-20, 9 VAC 5-50-260, 9 VAC 5-80-110, 9 VAC 5-80-1100, 9 VAC 5-170-160 and Condition 3 of 7/29/2002 NSR Permit)

2. At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions. (9 VAC 5-40-20 F, 9 VAC 5-50-20 F and 9 VAC 5-80-110)

3. Volatile Organic Compound emissions from the Plant 2 finishing line (F2) spray booths shall be minimized by proper spraying technique, the use of HVLP and/or air assisted airless spray equipment and by complying with the Work Practice Standards of 40 CFR 63, Subpart JJ. (9 VAC 5-50-260, 9 VAC 5-50-1100, 9 VAC 5-80-110 and Condition 5 of 7/29/2002 NSR Permit)

4. The throughput of VOC in finishing and related materials in Plant 2 finishing (F2) shall not exceed 350.0 tons per year, calculated as the sum of each consecutive twelve (12) month period. (9 VAC 5-50-20, 9 VAC 5-80-110, 9 VAC 5-80-1100, 9 VAC 5-80-1700, 9 VAC 5-170-160 and Condition 6 of 7/29/2002 NSR Permit)

5. The throughput of gross board feet of lumber used in manufacturing furniture for the Plant 2 finishing line (F2) shall not exceed 3.1 million board feet per year, calculated as the sum of each consecutive twelve (12) month period. (9 VAC 5-80-110, 9 VAC 5-80-1100 and Condition 7 of 7/29/2002 NSR Permit)

6. Particulate emissions from the operation of the Plant 2 finishing line (F2) shall not exceed 5.0 tons per year, calculated as the sum of each consecutive twelve (12) month period. (9 VAC 5-50-260, 9 VAC 5-80-110, 9 VAC 5-80-1100, 9 VAC 5-80-1700 and Condition 8 of 7/29/2002 NSR Permit)

7. Visible emissions from each Plant 2 (F2) finishing spray booth shall not exceed five (5) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.

Visible emissions from each finishing spray booth, except Plant 2 (F2) finishing spray booths, shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emission shall not exceed 30 percent opacity.

(9 VAC 5-40-80, 9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-80-110, 9 VAC 5-80-1100 and Condition 13 of 7/29/2002 NSR Permit)

8. All finishing, including Plant 2 finishing (F2), shall be operated in compliance with 40 CFR 63 Subpart JJ (wood furniture manufacturing MACT) as an existing affected source. (9 VAC 5-50-260, 9 VAC 5-60-90, 9 VAC 5-80-110, 9 VAC 5-80-1100 and Condition 14 of 7/29/2002 NSR Permit)

B. Monitoring

1. At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

   a. At least once per week an observation for the presence of visible emissions from each finishing spray booth stack shall be made. If visible emissions are observed, the permittee shall:

      (i) take timely corrective action such that the spray booth resumes operation with no visible emissions, or

      (ii) perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the spray booth stack does not exceed the applicable five (5) or 20 percent opacity limitation in this section. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed the applicable five (5) or 20 percent opacity limitation, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the spray booth resumes operation with visible emissions of the applicable five (5) or 20 percent opacity limitation or less.

   The permittee shall maintain a spray booth observation log to demonstrate compliance. The log shall identify the emissions point and include the date and time of the observations, whether or not there were visible emission, any VEE recordings, and any necessary corrective action.
   (9 VAC 5-40-20 E, 9 VAC 5-50-20 E, 9 VAC 5-80-110 and 9 VAC 5-80-110 E, F, K)

2. Operation & Maintenance Procedures – The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

b. Develop an inspection schedule, monthly at a minimum, to insure the operational integrity of the overspray collectors and maintain records of inspection results.

c. Have available written operating procedures for the air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

d. Train operators in the proper operation of all air pollution control equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

e. Maintain an inventory of spare parts that are needed to maintain the overspray collectors in proper working order to minimize emissions.

Records of maintenance, inspections and training shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
(9 VAC 5-40-20E, 9 VAC 5-50-20E, 9 VAC 5-80-110, 9 VAC 5-80-110 F & K, 9 VAC 5-80-1100 and Conditions 21 & 22 of 7/29/2002 NSR Permit)

C. Recordkeeping

The permittee shall maintain records of all finishing emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:

1. Plant 2 Throughput and Emissions: Monthly and annual material balance including the throughput and emissions of VOC and particulates associated with Plant 2 finishing (F2) Plant 2 annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. Plant 2 throughput shall be calculated as the summation of finishes applied to each case. Plant 2 particulate emissions from furniture finishing shall be calculated using 50% transfer efficiency and 90% control efficiency. (Except for VOCs removed from the facility as waste or liquids, all the VOC throughput evaporates to atmosphere).

2. Plant 2 Lumber Throughput: Monthly and annual material balance including the throughput of gross board feet of lumber used in manufacturing associated with Plant 2 finishing (F2). The annual quantities shall be calculated as the sum of each consecutive twelve (12) month period. The gross board feet of lumber used shall be calculated as the summation of net board feet used for each manufactured case, divided by the percent yield on an annualized basis.

3. Plant 2 Operating Hours: Daily records of the number of hours of operation of Plant 2 finishing (F2) spray booths. Annual quantities shall be calculated as the sum of each consecutive twelve (12) month period.

4. Plant 2 Other: A certified annual report which provides the purchase price variance, as a percentage, comparing actual to costed prices for finishes applied at the Stanleytown facility.

5. Combined Plant Throughput: The combined plant calendar year annual throughput of finish and related materials, in tons of VOC, tons of solids, and either tons or gallons of finish and related materials, for calculating calendar year emissions and fees.

6. Combined Plant Emissions: The combined plant calendar year annual VOC and particulate emissions in tons from finishing and related operations, for calculating calendar year emissions and fees. The emission factors and emission calculation equations used in these emission calculations shall be identified and readily available. (Except for VOCs removed from the facility as waste or liquids, all the VOC throughput evaporates to atmosphere).

7. MACT JJ Monthly Averaging Option: Monthly finishing throughput for the combined plant for finish and related materials, in tons of VOC and tons of solids, for each month that the monthly averaging option (instead of the compliant coating option) is used to comply with 40 CFR 63 Subpart JJ (MACT JJ). [Note that 40 CFR 63 Subpart JJ requires considerable additional recordkeeping for each month that the monthly averaging option is used.]

8. Records as required by the Monitoring Section (Condition V.B). Also see Facility Wide Conditions (including MACT recordkeeping), and Recordkeeping under the General Conditions of this permit.

   These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
   (9 VAC 5-40-50, 9 VAC 5-50-50, 9 VAC 5-80-110, 9 VAC 5-80-1100, 9 VAC 5-80-1700 and Condition 16 of 7/29/2002 Permit)

D. Testing

1. Emissions Testing - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
   (9 VAC 5-40-30 F, 9 VAC 5-50-30 F and 9 VAC 5-80-110)

2. Stack Tests - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of

the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G, 9 VAC 5-50-30 G and 9 VAC 5-80-110)

3. Visible Emissions Evaluations - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G, 9 VAC 5-50-30 G and 9 VAC 5-80-110)

E. Reporting

See General Conditions, Section XII C., D., E. and F. for all reporting requirements.

VI. Process Equipment Requirements – (EU-Con-Adh) Contact Adhesive

A. Limitations

1. The contact adhesive process shall be operated in compliance with the requirements of 40 CFR 63 Subpart JJ (Wood Furniture Manufacturing MACT) as an existing affected source.
(9 VAC 5-60-90, 9 VAC 5-60-100 and 9 VAC 5-80-110)

2. The Dimension Mill - Plant 06 (Fingerjoint Machine, Rosenquist HF Gluer, L & L Clam Shell Gluer and Taylor Glue Reels), Panel Plant - Plant 05 (Wemhoner Hot Press, Buerkle Hot Press, Newman Cold Presses, Fletcher Combo Machine, Fletcher Edge Banders, Holzma Dbl Sided Bander and Rosenquist HF Gluer) and Shoda Building - Plant 07 (Rosenquist Clam Shell) processes shall be operated in compliance with the requirements of 40 CFR 63 Subpart DDDD (Plywood and Composite Wood Products MACT).
(9 VAC 5-60-90, 9 VAC 5-60-100 and 9 VAC 5-80-110)

3. Particulate emissions from each contact adhesive spray booth (EU-Con-Adh) when its spraying equipment is operating, shall be controlled by water wash spray booths, spray booth dry filters or equivalent at a minimum. The overspray particulate controls shall be provided with adequate access for inspection and maintained by the permittee such that they are in proper working order when the spray equipment is operating.
(9 VAC 5-80-110 and 9 VAC 5-170-160)

4. Visible emissions from each contact adhesive spray booth stack shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
(9 VAC 5-40-80, 9 VAC 5-50-80, 9 VAC 5-80-110 and 9 VAC 5-170-160)

B. Monitoring

1. At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The permittee shall take the following measures in order to

minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

a. At least once per week an observation for the presence of visible emissions from each contact adhesive spray booth stack shall be made. If visible emissions are observed, the permittee shall:

(i) take timely corrective action such that the spray booth resumes operation with no visible emissions, or

(ii) perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the spray booth stack does not exceed the applicable five (5) or 20 percent opacity limitation in this section. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed the applicable five (5) or 20 percent opacity limitation, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the spray booth resumes operation with visible emissions of the applicable five (5) or 20 percent opacity limitation or less.

The permittee shall maintain a spray booth observation log to demonstrate compliance. The log shall identify the emissions point and include the date and time of the observations, whether or not there were visible emission, any VEE recordings, and any necessary corrective action.
(9 VAC 5-80-110 E)

2. Operation & Maintenance Procedures – The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

b. Develop an inspection schedule, monthly at a minimum, to insure the operational integrity of the air pollution control equipment and maintain records of inspection results.

c. Have available written operating procedures for the air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

d. Train operators in the proper operation of all air pollution control equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

e. Maintain an inventory of spare parts that are needed to maintain the air pollution control equipment in proper working order.

Records of maintenance, inspections and training shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
(9 VAC 5-40-20 E, 9 VAC 5-80-110 and 9 VAC 5-80-110 F & K)

C. Recordkeeping

The permittee shall maintain records of all contact adhesive process emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:

1. Throughput: The calendar year annual throughput of contact adhesive and related materials, in tons of VOC for the VOC content that evaporates, tons of solids, and either tons or gallons of contact adhesive and related materials, for calculating calendar year emissions and fees. [Note that 40 CFR 63 Subpart JJ may require additional recordkeeping.]

2. Glue Inventory: Records of the calendar year glue usage shall be maintained; the records shall include the type and amount of each glue in order to show compliance with MACT DDDD. [Note that 40 CFR 63 Subpart DDDD may require additional recordkeeping.]

3. VOC Emissions: The calendar year annual VOC emissions in tons from contact adhesive and related materials, for calculating year emissions and fees. The emissions factors and emissions calculation equations used in these emission calculations shall be identified and readily available. (Except for VOCs removed from the facility as waste or liquids, all the evaporable VOC throughput evaporates to atmosphere.)

4. Records as required by the Monitoring section (VI.B). Also see Facility Wide Conditions (including MACT recordkeeping) and Recordkeeping under the General Conditions in the permit.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-40-50 and 9 VAC 5-80-110)

D. Testing

1. Emissions Testing - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9 VAC 5-40-30 F and 9 VAC 5-80-110)

2. Stack Tests - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G and 9 VAC 5-80-110)

3. Visible Emissions Evaluations - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G and 9 VAC 5-80-110)

E. Reporting

See General Conditions, Section XII C., D., E. and F. for all reporting requirements.

1. Compliance reports shall be submitted for all equipment subject to 40 CFR Part 63, Subpart DDDD – Plywood and Composite Wood Products (PCWP). The compliance reports shall be submitted according to and include the information outlined in 40 CFR Part 63.2281.
(9 VAC 5-60-90, 9 VAC 5-60-100 and 9 VAC 5-80-1180)

VII. Process Equipment Requirements – (EU-DK) Lumber Drying Kilns

A. Limitation

Requirements by Reference - Except where this permit is more restrictive than the applicable requirement, the lumber drying kilnsshall be operated in compliance with the requirements of 40 CFR Part 63, Subpart DDDD – Plywood and Composite Wood Products (PCWP).
(9 VAC 5-60-90, 9 VAC 5-60-100 and 9 VAC 5-80-1180)

B. Monitoring

Not applicable – no limitations.

C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:

1. Throughput*:* The calendar year annual throughput of lumber in board feet and type of lumber sufficient for calculating calendar year emissions and fees for all lumber drying kilns combined.

2. VOC emissions*:* The calendar year annual VOC emissions in tons from all lumber drying kilns combined, for calculating calendar year annual emissions and fees. The emission factors and emission calculation equations used in these emission calculations shall be identified and readily available.

3. MACT DDDD*:* Records necessary to show compliance with MACT DDDD (40 CFR Part 63).

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-40-50 and 9 VAC 5-80-110)

D. Testing

1. Stack Tests - Upon request by the DEQ, the permittee shall conduct performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G and 9 VAC 5-80-110)

2. Visible Emissions Evaluations - Upon request by the DEQ, the permittee shall conduct visible emission evaluations to demonstrate compliance with the visible emission limits

contained in this permit. The details of the tests shall be arranged with the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-40-30 G and 9 VAC 5-80-110)

E. Reporting

See General Conditions, Section XII C., D., E. and F. for all reporting requirements.

1. Compliance reports shall be submitted for all equipment subject to 40 CFR Part 63, Subpart DDDD – Plywood and Composite Wood Products (PCWP). The compliance reports shall be submitted according to and include the information outlined in 40 CFR Part 63.2281.
(9 VAC 5-60-90, 9 VAC 5-60-100 and 9 VAC 5-80-1180)

VIII. Wood Furniture MACT (40 CFR 63 Subpart JJ)

The facility is to be operated in compliance with Federal requirements under 40 CFR Part 63 Subpart JJ, including applicable future revisions (a current copy is attached). This includes the applicable General Provisions, Subpart A of 40 CFR 63, as identified in Table 1 in 40 CFR 63 Subpart JJ. All terms used regarding 40 CFR 63 Subpart JJ shall have the meanings as defined in 40 CFR 63.801 and 40 CFR 63.2. The terms and conditions below are from 40 CFR 63 Subpart JJ.
(9 VAC 5-60-100, 40 CFR 63.800 et seq. (Subpart JJ), 40 CFR 63 Subpart A)

A. Limitations

1. Volatile Hazardous Air Pollutant (VHAP) emissions from the facility shall not exceed the following limits:

   a. For finishing operations use any of the following methods:

      (1) Achieve a weighted average VHAP content across all coatings of 1.0 lb VHAP/lb solids, as applied;

      (2) Use compliant finishing materials that meet the following specifications:

         (a) Each sealer and topcoat has a VHAP content of no more than 1.0 lb VHAP/lb solids, as applied;

         (b) Each stain has a VHAP content of no more than 1.0 lb VHAP/lb solids, as applied;

         (c) Each thinner contains no more than 10.0 percent VHAP by weight except where excluded by (e) of this sub-section. For purposes of calculating thinner content of this section, VHAP equals HAP;

         (d) Each washcoat, basecoat, and enamel that is purchased pre-made, that is, it is not formulated onsite by thinning another finishing material, has a VHAP content of no more than 1.0 lb VHAP/lb solids, as applied;

         (e) Each washcoat, basecoat, and enamel that is formulated onsite is formulated using a finishing material containing no more than 1.0 lb VHAP/lb solids and a thinner containing no more than 3.0 percent VHAP by weight;

      (3) Use any combination of averaging and compliant coatings such that no greater than 1.0 lb of VHAP being emitted per lb of solids used;

   b. For cleaning operations strippable spray booth coatings shall be used that contain no more than 0.8 lb VOC/lb solids, as applied;

c. Compliant contact adhesives shall be used based on the following criteria:

(1) For aerosol adhesives, as well as hot melt, PVA, and urea-formaldehyde adhesives, and for contact adhesives applied to nonporous substrates there is no limit on the VHAP content of these adhesives;

(2) For foam adhesives used in products that meet flammability requirements the VHAP content can be no more than 1.8 lb VHAP/lb solids, as applied;

(3) For all other contact adhesives the VHAP content can be no more than 1.0 lb VHAP/lb solids, as applied;

(9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.802)

2. The permittee shall develop and implement the following work practice standards:

a. Work practice implementation plan - The permittee shall prepare and maintain a written work practice implementation plan that defines environmentally desirable work practices for the finishing and gluing operations and addresses each of the work practice standards presented in Conditions VIII.A.2.b through VIII.A.2.l that follow. The plan shall be developed no more than 60 days after the compliance date. The written work practice implementation plan shall be available for inspection by the Administrator upon request. If the Administrator determines that the work practice implementation plan does not adequately address each of the topics specified in 40 CFR 63.803 or that the plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Administrator may require the permittee to modify the plan. Revisions or modifications to the plan do not require a revision of the source's Title V permit.

b. Operator training course - The permittee shall train all new and existing personnel, including contract personnel, who are involved in finishing, gluing, cleaning, and washoff operations, on the use of manufacturing equipment in these operations, or implementation of the requirements of 40 CFR Part 63 Subpart JJ. All new personnel shall be trained upon hiring. All existing personnel shall be trained within six months of the compliance date. All personnel shall be given refresher training annually. The permittee shall maintain a copy of the training program with the work practice implementation plan. The training program shall include, at a minimum, the following:

(1) A list of all current personnel by name and job description that are required to be trained;

(2) An outline of the subjects to be covered in the initial and refresher training for each position or group of personnel;

(3) Lesson plans for courses to be given at the initial and the annual refresher training that include, at a minimum, appropriate application techniques, appropriate cleaning

and washoff procedures, appropriate equipment setup and adjustment to minimize finishing material usage and overspray, and appropriate management of cleanup wastes; and

(4) A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.

c. Inspection and maintenance plan - The permittee shall prepare and maintain with the work practice implementation plan a written leak inspection and maintenance plan that specifies:

(1) A minimum visual inspection frequency of once per month for all equipment used to transfer or apply coatings, adhesives, or organic HAP solvents;

(2) An inspection schedule;

(3) Methods for documenting the date and results of each inspection and any repairs that were made;

(4) The time frame between identifying the leak and making the repair, which adheres, at a minimum, to the following schedule:

(a) A first attempt at repair (e.g., tightening of packing glands) shall be made no later than five calendar days after the leak is detected; and

(b) Final repairs shall be made within 15 calendar days after the leak is detected, unless the leaking equipment is to be replaced by a new purchase, in which case repairs shall be completed within three months.

d. Cleaning and washoff solvent accounting system - The permittee shall develop an organic HAP solvent accounting form to record:

(1) The quantity and type of organic HAP solvent used each month for washoff and cleaning, as defined in 40 CFR 63.801;

(2) The number of pieces washed off, and the reason for the washoff; and

(3) The quantity of spent organic HAP solvent generated from each washoff and cleaning operation each month, and whether it is recycled onsite or disposed offsite.

e. Chemical composition of cleaning and washoff solvents - The permittee shall not use cleaning or washoff solvents that contain any of the pollutants listed in Table 4 of 40 CFR Part 63 Subpart JJ, in concentrations subject to MSDS reporting as required by OSHA.

f. Spray booth cleaning - The permittee shall not use compounds containing more than 8.0 percent by weight of VOC for cleaning spray booth components other than

conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters, unless the spray booth is being refurbished. If the spray booth is being refurbished, that is the spray booth coating or other protective material used to cover the booth is being replaced, the permittee shall use no more than 1.0 gallon of organic HAP solvent per booth to prepare the surface of the booth prior to applying the booth coating.

g. Storage requirements - The permittee shall use normally closed containers for storing finishing, gluing, cleaning, and washoff materials.

h. Application equipment requirements - The permittee shall use conventional air spray guns to apply finishing materials only under any of the following circumstances:

(1) To apply finishing materials that have a VOC content no greater than 1.0 lb VOC/lb solids, as applied;

(2) For touchup and repair under the following conditions:

(a) The touchup and repair occurs after completion of the finishing operation; or

(b) The touchup and repair occurs after the application of stain and before the application of any other type of finishing material, and the materials used for touchup and repair are applied from a container that has a volume of no more than 2.0 gallons.

(3) When spray is automated, that is, the spray gun is aimed and triggered automatically, not manually;

(4) When emissions from the finishing application station are directed to a control device;

(5) The conventional air gun is used to apply finishing materials and the cumulative total usage of that finishing material is no more than 5.0 percent of the total gallons of finishing material used during that semiannual period; or

(6) The conventional air gun is used to apply stain on a part for which it is technically or economically infeasible to use any other spray application technology. The permittee shall demonstrate technical or economic infeasibility by submitting to the Administrator a videotape, a technical report, or other documentation that supports the permittee's claim of technical or economic infeasibility. The following criteria shall be used, either independently or in combination, to support the permittee's claim of technical or economic infeasibility:

(a) The production speed is too high or the part shape is too complex for one operator to coat the part and the application station is not large enough to accommodate an additional operator; or

(b) The excessively large vertical spray area of the part makes it difficult to

avoid sagging or runs in the stain.

i. Line cleaning - The permittee shall pump or drain all organic HAP solvent used for line cleaning into a normally closed container.

j. Gun cleaning - The permittee shall collect all organic HAP solvent used to clean spray guns into a normally closed container.

k. Washoff operations - The permittee shall control emissions from washoff operations by:

(1) Using normally closed tanks for washoff; and

(2) Minimizing dripping by tilting or rotating the part to drain as much solvent as possible.

l. Formulation assessment plan for finishing operations - The permittee shall prepare and maintain with the work practice implementation plan a formulation assessment plan that:

(1) Identifies VHAP from the list presented in Table 5 of 40 CFR Part 63 Subpart JJ that are being used in finishing operations;

(2) Establishes a baseline level of usage for each VHAP identified. The baseline usage level shall be the highest annual usage from 1994, 1995, or 1996, for each VHAP identified, except for formaldehyde and styrene which shall be determined as specified by 40 CFR 63.803 (l)(2). For VHAPs that do not have a baseline, one will be established according to Condition VIII.A.2.l(6) below.

(3) Tracks the annual usage of each VHAP identified in VIII.A.2.l(1), above, that is present in amounts subject to MSDS reporting as required by OSHA.

(4) If the annual usage of the VHAP identified exceeds its baseline level, then the permittee shall provide a written notification to the Air Compliance Manager, West Central Regional Office that describes the amount of the increase and explains the reasons for exceedance of the baseline level. The following explanations would relieve the owner or operator from further action, unless the affected source is not in compliance with any State regulations or requirements for that VHAP:

(a) The exceedance is no more than 15.0 percent above the baseline level;

(b) Usage of the VHAP is below the de minimis level presented in Table 5 of 40 CFR Part 63 Subpart JJ for that VHAP;

(c) The affected source is in compliance with its State's air toxic regulations or guidelines for the VHAP; or

(d) The source of the pollutant is a finishing material with a VOC content of

no more than 1.0 lb VOC/lb solids, as applied.

(5) If none of the explanations listed in VIII.A.2.l(4) above are the reason for the increase, the permittee shall confer with the Air Compliance Manager, West Central Regional Office, to discuss the reason for the increase and whether there are practical and reasonable technology-based solutions for reducing the usage. The evaluation of whether a technology is reasonable and practical shall be based on cost, quality, and marketability of the product, whether the technology is being used successfully by other wood furniture manufacturing operations, or other criteria mutually agreed upon by the Air Compliance Manager, West Central Regional Office, and the owner or operator. If there are no practical and reasonable solutions, the facility need take no further action. If there are solutions, the owner or operator shall develop a plan to reduce the usage of the pollutant to the extent feasible. The plan shall address the approach to be used to reduce emissions, a timetable for implementing the plan, and a schedule for submitting notification of progress.

(6) If the permittee uses a VHAP of potential concern listed in Table 5 of 40 CFR Part 63 Subpart JJ for which a baseline level has not been previously established, then the baseline level shall be established as the de minimis level provided in that same table for that chemical. The permittee shall track the annual usage of each VHAP of potential concern identified that is present in amounts subject to MSDS reporting as required by OSHA. If usage of the VHAP of potential concern exceeds the de minimis level listed in Table 5 of 40 CFR Part 63 Subpart JJ for that chemical, then the permittee shall provide an explanation to the Air Compliance Manager, West Central Regional Office, that documents the reason for the exceedance of the de minimis level. If the explanation is not one of those listed in VIII.A.2.l(4) above, the affected source shall follow the procedures established in VIII.A.2.l(5) above.

(9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.803(a)-(l))

3. The permittee shall meet the following operation and maintenance requirements:

   a. At all times, including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.

   b. Malfunctions shall be corrected as soon as practicable after their occurrence.

   c. Operation and maintenance requirements established pursuant to section 112 of the Clean Air Act are enforceable independent of emissions limitations or other requirements in relevant standards.

   d. Determination of whether operation and maintenance procedures are being used will be based on information available to the DEQ which may included, but is not limited to,

review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.6(e))

B. Monitoring

Continuous compliance with the VHAP emissions limits shall be determined as follows:

1. For finishing operations when averaging is being used to show continuous compliance, the permittee shall submit the results of the averaging calculation (Equation 1) for each month within that semiannual period and submitting a compliance certification with the semiannual report. The compliance certification shall state that the value of (E), as calculated by Equation 1, is no greater than 1.0. The facility is in violation of the standard if E is greater than 1.0 for any month. A violation of the monthly average is a separate violation of the standard for each day of operation during the month, unless the affected source can demonstrate through records that the violation of the monthly average can be attributed to a particular day or days during the period.

$$E = (M_{c1}C_{c1} + M_{c2}C_{c2} + ... + M_{cn}C_{cn} + S_1W_1 + S_2W_2 + ... \ S_nW_n)/(M_{c1} + M_{c2} + ... + M_{cn})$$ ..... Equation 1

E = the emission limit achieved by an emission point or a set of emission points, in lb VHAP/lb solids.
M_c = the mass of solids in a finishing material or coating used monthly, including exempt finishing materials and coatings, lb solids/month.
C_c = the VHAP content of a finishing material or coating (c), in pounds of VHAP per pound of coating solids.
S = the VHAP content of a solvent, expressed as a weight fraction, added to finishing materials or coatings.
W = the amount of solvent, in pounds, added to finishing materials and coatings during the monthly averaging period.

The Emission Limit (E in lb VHAP / lb solids) equals the sum, for all finishing materials and coatings, of the mass of solids in each material used within that month (M_c in lb solids / month) multiplied by the VHAP content in each material (C_c in lb VHAP / lb solids) plus the sum, for all solvents, of the mass of solvent used monthly (W in lb solvent / month) multiplied by the weight fraction of VHAP in the solvent (S in lb VHAP / lb solvent), with this total being divided by the sum, for all finishing materials and coatings, of the mass of solids in each finishing material and coating used within that month (M_c in lb solids / month).

2. For finishing operations when compliant coatings are being used to show continuous compliance, the permittee shall use compliant coatings and thinners, maintain records that demonstrate the finishing materials and thinners are compliant, and submit a compliance certification with the semiannual report which states that compliant stains, washcoats, sealers, topcoats, basecoats, enamels, and thinners, as stated in Condition VIII.A.1, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. The facility is in violation of the standard whenever a noncompliant coating, as demonstrated by records or by a sample of the coating, is used.

3. For contact adhesive operations when compliant adhesives are being used to show compliance, the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state that compliant contact and/or foam

adhesives have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant contact and/or foam adhesives were used. Each day a noncompliant contact or foam adhesive is used is a single violation of the standard.

4. For strippable spray booth coatings the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state that compliant strippable spray booth coatings have been used each day in the semiannual reporting period, or should otherwise identify each day noncompliant materials were used. Each day a noncompliant strippable booth coating is used is a single violation of the standard.

5. For work practice standards the permittee shall submit a compliance certification with the semiannual report. The compliance certification shall state that the work practice implementation plan is being followed, or should otherwise identify the provisions of the plan that have not been implemented and each day the provisions were not implemented. During any period of time that the permittee is required to implement the provisions of the plan, each failure to implement an obligation under the plan during any particular day is a violation and the Administrator may require the permittee to modify the plan (see Condition VIII.A.2.a).

   (9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.804(g) & 40 CFR 63.8)

C. Recordkeeping

The permittee shall maintain records of the following:

1. For emission limit purposes, the permittee shall maintain the following:

   a. A certified product data sheet for each finishing material, thinner, contact adhesive, and strippable spray booth coating subject to the emission limits in Condition VIII.A.1,

   b. The VHAP content, in lb VHAP/lb solids, as applied, of each finishing material and contact adhesive subject to the emission limits in Conditions VIII.A.1.a and VIII.A.1.c; and

   c. The VOC content, in lb VOC/lb solids, as applied, of each strippable booth coating subject to the emission limits in Condition VIII.A.1.b.

2. Following the averaging method the permittee shall maintain copies of the averaging calculation for each month following the compliance date, as well as the data on the quantity of coatings and thinners used that is necessary to support the calculation of E in Equation 1 (as defined in Condition VIII.B.1).

3. The permittee shall maintain onsite the work practice implementation plan and all records associated with fulfilling the requirements of that plan, including, but not limited to:

   a. Records demonstrating that the operator training program required by Condition VIII.A.2.b is in place;

b. Records collected in accordance with the inspection and maintenance plan required by Condition VIII.A.2.c;

c. Records associated with the cleaning solvent accounting system required by Condition VIII.A.2.d;

d. Records associated with the limitation on the use of conventional air spray guns showing total finishing material usage and the percentage of finishing materials applied with conventional air spray guns for each semiannual period required by Condition VIII.A.2.h;

e. Records associated with the formulation assessment plan required by Condition VIII.A.2.l; and

f. Copies of documentation such as logs developed to demonstrate that the other provisions of the work practice implementation plan are followed.

4. The permittee shall maintain records of the compliance certifications submitted for each semiannual period following the compliance date.

5. The permittee shall maintain records of all other information submitted with the compliance status report and the semiannual reports.

6. The permittee shall maintain files of all information (including all reports and notifications) required, recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be retained on site. The remaining three (3) years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

(9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.806 & 63.10(b)(1))

D. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use appropriate test methods in accordance with procedures approved by the DEQ or specified in the MACT.
(9 VAC 5-80-110)

E. Reporting

1. Each time a notification of compliance status is required (see Condition XII.C), the permittee shall submit to the Air Compliance Manager, West Central Regional Office, a notification of compliance status, signed by a responsible official of the company that owns or operates the facility who shall certify its accuracy, attesting to whether the source has complied with 40 CFR Part 63 Subpart JJ. The notification shall list:

a. The methods that were used to determine compliance;

b. The results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;

c. The methods that will be used for determining continuing compliance, including a description of monitoring and reporting requirements and test methods;

d. The type and quantity of hazardous air pollutants emitted by the source, reported in units and averaging times and in accordance with the test methods specified;

e. An analysis demonstrating whether the facility is a major source or an area source (using the emissions generated for this notification);

f. A statement by the permittee as to whether the facility has complied with 40 CFR 63 Subpart JJ as expressed in this permit.

Copies of each 40 CFR 63 Subpart JJ (MACT JJ) notification shall be sent to:

U. S. EPA Region III
Air Protection Division (3AP00)
ATTN: Wood Furniture NESHAP (40 CFR 63 Subpart JJ) Coordinator
1650 Arch Street
Philadelphia, PA 19103 - 2029.

VA DEQ, West Central Regional Office
Air Compliance Manager
3019 Peters Creek Road
Roanoke, VA 24019

(9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.9(h))

2. Reporting not otherwise required by this permit shall consist of the following:

a. The permittee when demonstrating continuous compliance shall submit a report covering the previous six (6) months of wood furniture manufacturing operations (see Condition XII.C.3):

(1) Reports shall be submitted no later than March 1 and September 1 of each calendar year.

(2) The semiannual reports shall include the information required by Condition VIII.B, a statement of whether the facility was in compliance or noncompliance, and, if the facility was in noncompliance, the measures taken to bring the facility into compliance.

b. The permittee, when required to provide a written notification by Condition VIII.A.2.l(4) for exceedance of a baseline level [40 CFR 63.803(1)(4)], shall include in the notification one or more statements that explains the reasons for the usage increase. The notification shall be submitted no later than 30 calendar days after the end of the annual period in which the usage increase occurred.

Copies of reports shall be submitted to the U.S. Environmental Protection Agency and VA DEQ at the addresses given in Condition VIII.E.1.
(9 VAC 5-170-160, 9 VAC 5-80-110, and 40 CFR 63.807 & 63.10(d))

END OF SELECTED 40 CFR 63 SUBPART JJ WOOD FURNITURE MACT CONDITIONS

IX. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
Gluing	Gluing (except for the Contact Adhesive operation)	9 VAC 5-80-720 B,C	VOC (less than 5 tpy)	Includes up to 2 million Btu/hr capacity natural gas heat per hot plate glue press.
Maintenance Parts Washers	Maintenance Parts Washers that do not use halogenated solvents.	9 VAC 5-80-720 A,B	VOC (less than 5 tpy)	NA
Fire Pumps	One (1) Emergency Diesel Fire Pump	9 VAC 5-80-720 C		One (1) 190 hp
Vacuum Pump Room	Vacuum Pump Room	9 VAC 5-80-720 A,B	VOC (less than 5 tpy)	NA
Facility Air Compressors	Powered by electric motors.	9 VAC 5-80-720 A	VOC (less than 5 tpy)	NA
Misc. Storage Tanks	15 AST – Finishing Materials 1 AST – Gasoline 1 AST – Diesel 1 AST - #2 Fuel Oil 1 AST – Used Oil	9 VAC 5-80-720 B	VOC (less than 5 tpy)	Capacity of each tank is less than 10,000 gallons (most are much smaller).

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

X. Compliance Plan

Not Applicable

XI. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart Dc	NSPS Dc for 10-100 million Btu/hr Steam Generating Units	Erie City boiler (B1) 37 million Btu/hr wood/No.2 Fuel Oil – installed prior to June 9, 1989 NSPS applicability date.
40 CFR 60 Subpart Db	NSPS Db for 100-250 million Btu/hr Steam Generating Units	Union Iron Works boiler (B2), 110 million Btu/hr wood/coal – installed prior to June 19, 1984 NSPS applicability date.
40 CFR 63 Subpart JJ	MACT JJ, Wood Furniture Manufacturing (as it pertains to gluing)	Gluing except contact adhesive operation. Except for the small contact adhesive operation, all the rest of Gluing throughput the facility does not use the MACT gluing process.
40 CFR 60 Subpart Kb	NSPS Kb for storage tanks.	All storage tanks have a capacity of less than the 75 cubic meters (19,812 gal) applicability size; also, most or all were installed prior to the July 24, 1984 NSPS applicability date.
40 CFR 63 Subpart DDDDD	MACT DDDDD, Industrial, Commercial, and Institutional Boilers and Process Heaters.	MACT DDDDD was vacated by the D.C. Circuit Court of Appeals on June 8, 2007.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

XII. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the effective date of this permit renewal. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.

4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

a. The date, place as defined in the permit, and time of sampling or measurements.

b. The date(s) analyses were performed.

c. The company or entity that performed the analyses.

d. The analytical techniques or methods used.

e. The results of such analyses.

f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **September 1** and **March 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:

(1) Exceedance of emission limitations or operational restrictions;

(2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

(3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

d. The report shall be sent to the following address:

VA DEQ, West Central Regional Office
Air Compliance Manager
3019 Peters Creek Road
Roanoke, VA 24019

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and to DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.

2. The identification of each term or condition of the permit that is the basis of the certification.

3. The compliance status.

4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.

6. Such other facts as the permit may require to determine the compliance status of the source.

7. This annual compliance certification shall be sent to the following addresses:

   VA DEQ, West Central Regional Office
   Air Compliance Manager
   3019 Peters Creek Road
   Roanoke, VA 24019

   U. S. Environmental Protection Agency, Region III
   Clean Air Act Title V Compliance Certification (3AP00)
   1650 Arch Street
   Philadelphia, PA 19103-2029

   (9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Air Compliance Manager, West Central Regional Office, within four (4) daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition XII.C.3 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Air Compliance Manager, West Central Regional Office, by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Air Compliance Manager, West Central Regional Office.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios. (9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality. (9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G. (9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. (9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-50-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.
(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

   a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

   b. The permitted facility was at the time being properly operated.

   c. During the period of the malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit.

   d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirement of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirements under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.

4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the

permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

XIII. State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

1. Odor - Not Applicable

2. State toxics rule – Not Applicable. There are no state toxics conditions to roll over into the Title V permit from any applicable NSR permit.

3. Other – Not Applicable

(9 VAC 5-80-110 N and 9 VAC 5-80-300)